

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-12 (Canceled)

13. (Currently Amended) A method for enciphering a sequence of clear text data values comprising:
- a. nested shuffling each of a plurality of large random secrets, using a plurality of mixing keys thus forming a plurality of shuffled large random secrets wherein each of the plurality of large random secrets is a random value and further wherein the plurality of shuffled large random secrets are each a random value;
 - b. performing an exclusive OR on the plurality of shuffled large random secrets to produce a plurality of large random pads;
 - c. circularly rotating the values of each of the plurality of large random pads according to a plurality of random rotation values thus forming a plurality of rotated large random pads;
 - d. randomly shuffling a portion of each of the plurality of ~~randomly~~ rotated [[and]] large random pads according to a plurality of working keys thus forming a plurality of randomly rotated and randomly shuffled large random pads;

- e. performing an exclusive OR function on the plurality of randomly rotated and randomly shuffled large random pads to produce a final pad;
 - f. selecting a portion of the final pad to form a finite key stream; and
 - g. performing an exclusive OR function with the finite key stream with the sequence of clear text data values.
14. (Currently Amended) The method according to Claim 13 further comprising substituting a value within each of the plurality of ~~nested~~ shuffled large random secrets with a new random value using a plurality of substitution keys thus forming a plurality of nested shuffled and substituted large random secrets.
15. (Original) The method according to Claim 13 further comprising substituting a value within each of the plurality of large random secrets with a new random value using a plurality of substitution keys thus forming a plurality of substituted large random secrets.
16. (Currently Amended) The method according ~~according to~~ Claim 13 further comprising selecting a series of portions of the final pad to form the finite key stream.
17. (Currently Amended) The method according to Claim 13 further comprising transmitting the plurality of large random secrets, a ~~the~~ plurality of

substitution keys, the plurality of mixing keys, the plurality of working keys and the plurality of rotation values from a central server.

18. (Currently Amended) The method according to Claim 13 further comprising transmitting the plurality of large random secrets, a ~~[[the]]~~ plurality of substitution keys, the plurality of mixing keys, the plurality of working keys and the plurality of rotation values from a storage device.

19. (Currently Amended) A method for deciphering a sequence of cipher text data values comprising:

- a. nested shuffling each of a plurality of large random secrets, using a plurality of mixing keys thus forming a plurality of shuffled large random secrets wherein each of the plurality of large random secrets is a random value and further wherein the plurality of shuffled large random secrets are each a random value;
- b. performing an exclusive OR on the plurality of shuffled large random secrets to produce a plurality of large random pads;
- c. circularly rotating the values of each of the plurality of large random pads according to a plurality of random rotation values thus forming a plurality of rotated large random pads;
- d. randomly shuffling a portion of each of the plurality of ~~randomly~~ rotated ~~[[and]]~~ large random pads according to a plurality of working keys thus forming a plurality of randomly rotated and randomly shuffled large random pads;

- e. performing an exclusive OR function on the plurality of randomly rotated and randomly shuffled large random pads to produce a final pad;
 - f. selecting a portion of the final pad to form a finite key stream; and
 - g. performing an exclusive OR function with the finite key stream with the sequence of cipher text data values.
20. (Currently Amended) The method according to Claim 19 further comprising substituting a value within each of the plurality of ~~nested~~ shuffled large random secrets with a new random value using a plurality of substitution keys thus forming a plurality of nested shuffled and substituted large random secrets.
21. (Currently Amended) The method according ~~accordingt~~ to Claim 19 further comprising selecting a series of portions of the final pad to form the finite key stream.
22. (Currently Amended) The method according to Claim 19 further comprising transmitting the plurality of large random secrets, a ~~the~~ plurality of substitution keys, the plurality of mixing keys, the plurality of working keys and the plurality of rotation values from a central server.
23. (Currently Amended) The method according to Claim 19 further comprising transmitting the plurality of large random secrets, a ~~the~~ plurality of

substitution keys, the plurality of mixing keys, the plurality of working keys
and the plurality of rotation values from a storage device.

Claims 24-29 (Canceled)